

# CURRICULUM VITAE

## Sandra L. Maldonado-Ramírez, PhD

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### EDUCATION

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B.S. Industrial Microbiology, University of Puerto Rico- Mayagüez Campus (UPR-M), 1993  
M.S. Biology, UPR-M, 1997. **Composting process and degradation of organic material including used motor oil with *Aspergillus niger* Link.** 40pp.  
Ph.D. Plant Pathology, concentration in Mycology, Cornell University, 2001. **Aerobiology of the wheat scab fungus, *Gibberella zeae*: discharge, atmospheric dispersal, and deposition of ascospores.** 80pp.

### PROFESSIONAL MEMBERSHIPS

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Mycological Society of America (MSA), International Symbiosis Society (ISS), *Sociedad Puertorriqueña de Micología* (SPM), and *Asociación Latinoamericana de Botánica*

### PROFESSIONAL EXPERIENCE

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Associate Professor, Department of Biology, UPR-M, 2005- present.  
Curator, Mycological Collection, Department of Biology Herbarium (MAPR) since 2004.  
Assistant Professor, Department of Biology, UPR-M, 2001- 2005.  
Inventory of Mycological Resources at *Bosque del Pueblo*, Adjuntas, PR, 1996-97 *Ad Hoc*.  
Instructor, Department of Biology, UPR-M, 1996-97.  
Quality Control Technician, Becton-Dickinson, Cayey, PR, 1996.  
Graduate Teaching Assistant, Department of Biology, UPR-M, 1993-96.

### PRESENTATIONS AND CONFERENCES

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- González, N., G. Morell Rodríguez, **S.L. Maldonado-Ramírez**, S.L. Franqui Román, and L.V. Morales Sáez. 2008. *First report of fungal endophytes from *Dracontium polyphyllum* at Hacienda Buena Vista, Ponce, PR.* X Simposio de Micología, UT (UT)-Caguas, PR. May 2-3, 2008. Poster.
- Morales, C., G. Morell Rodríguez, and **S.L. Maldonado-Ramírez**. 2008. *Comparación de microflora aeronavegante en playa Los Tubos en Manatí y playa Puerto Nuevo en Vega Baja.* X Simposio de Micología, UT-Caguas, PR. May 2-3, 2008. Poster.
- Morell Rodríguez, G., **S.L. Maldonado-Ramírez**, D. China, and G. Breckon. 2008. *Fungal collection at the MAPR herbarium.* X Simposio de Micología, UT-Caguas, PR. May 2-3, 2008. Poster.
- Santiago, A.I., G. Morell Rodríguez, and **S.L. Maldonado-Ramírez**. 2008. *Interactions among the endophytic microflora associated to the foliar tissue of *Thalassia testudinum* (Hydrocharitaceae).* X Simposio de Micología, UT-Caguas, PR. May 2-3, 2008. Oral presentation.
- Quevedo Nazario, J.A., G. Rosado-Rodríguez, and **S.L. Maldonado Ramírez**. Vertical distribution of viable fungal spores in the lower atmosphere of an urban zone in Puerto Rico. 3<sup>rd</sup> International Symposium on Environment. May 22-25, 2008. Athens, Greece. Abstract accepted for presentation, but cannot attend meeting.
- González-Santiago, N., G. Morell Rodríguez, and **S.L. Maldonado-Ramírez**. Endophytic mycelial fungi from leaves of *Dracontium polyphyllum*. Sigma Xi XIII Poster Day. Chemistry Building, UPR-M. April 10, 2008. Poster
- Morales, C. and **S.L. Maldonado-Ramírez**. *Comparación de flora fungal entre dos playas del área metropolitana.* Sigma Xi XIII Poster Day. Chemistry Building, UPR-M. April 10, 2008. Poster

Román, R. and **S.L. Maldonado-Ramírez**. Endophytic fungal diversity in sea grass beds of *Thalassia testudinum* in Cabo Rojo, Lajas, and Vieques island. 43<sup>rd</sup> ACS Junior Technical Meeting and 28<sup>th</sup> Puerto Rico Interdisciplinary Scientific Meeting, UPR-*Arecibo*. March 8, 2008.

Acevedo, J. and **S.L. Maldonado-Ramírez**. Temporal distribution of mycelial fungi in an industrial zone at Mayagüez, PR. 43<sup>rd</sup> ACS Junior Technical Meeting and 28<sup>th</sup> Puerto Rico Interdisciplinary Scientific Meeting, UPR-*Arecibo*. March 8, 2008.

**Maldonado-Ramírez, S. L.** and G. Morell Rodríguez. November 2, 2007. Workshop for fourth and fifth grade students on Collection and Identification of Macroscopic Fungi. *De la Universidad a la montaña: experiencias universitarias para estudiantes del ICBC en la Escuela Washington Irving de Adjuntas*. Casa Pueblo, Adjuntas, PR.

**Maldonado-Ramírez, S. L.** September 25, 2007. *Comparación de la diversidad de hongos endofitos en praderas de Thalassia testudinum en Cabo Rojo, Lajas y Vieques*, PR. Department of Biology, UPR-M.

Román, R., Ortíz, M., Morales, C., G. Morell, and **S.L. Maldonado-Ramírez**. Halotolerant endophytic fungal diversity in sea grass beds of *Thalassia testudinum* from Cabo Rojo, Puerto Rico. Halophiles-2007. International Congress Exploring Life at High Salinity. September 2-6, 2007. Colchester, UK. Abstract accepted for presentation, but cannot attend meeting.

Couto-Rodríguez, M. A. Martínez, L. Cuebas, **S.L. Maldonado-Ramírez**, and R. Montalvo-Rodríguez. Endophytic prokaryotic diversity in sea grass beds of *Thalassia testudinum* from Cabo Rojo, Lajas, and Vieques, Puerto Rico. 107<sup>th</sup> General Meeting of the American Society for Microbiology. Toronto, Canada. May 21-25, 2007. Poster.

Natal-Molina, G. and **S.L. Maldonado-Ramírez**. Inventory of fungal pathogens from Puerto Rico included in the fungal collection at the University of Puerto Rico Herbarium-Mayagüez Campus (MAPR). IX *Simposio de Micología*. Pontificia Universidad Católica de Puerto Rico (PUCPR), Ponce. May 5, 2007. Poster.

Neste-Gallisa, K. and **S.L. Maldonado-Ramírez**. *Hongos mitosporicos en la baja atmósfera del pueblo de Hormigueros, Puerto Rico*. IX *Simposio de Micología*. PUCPR, Ponce. May 5, 2007. Poster.

Quevedo Nazario, J.A., G. Rosado-Rodríguez, and **S.L. Maldonado Ramírez**. *Distribución vertical de esporas de hongos miceliales en la baja atmósfera en una zona suburbana en Hormigueros, Puerto Rico*. IX *Simposio de Micología*. PUCPR, Ponce. May 5, 2007. Poster.

Rivera-Santos, Y. and **S.L. Maldonado-Ramírez**. *Inventario de Gasteromycetes en Puerto Rico*. IX *Simposio de Micología*. PUCPR, Ponce. May 5, 2007. Poster

Román, R., Ortíz, M., Morales, C., G. Morell, and **S.L. Maldonado-Ramírez**. Comparison of endophytic fungal diversity in sea grass beds of *Thalassia testudinum* from Cabo Rojo, Lajas, and Vieques, PR. IX *Simposio de Micología*. PUCPR, Ponce. May 5, 2007. Poster.

Velázquez, R. and **S.L. Maldonado-Ramírez**. *Catastro de hongos endofitos en Eucalyptus globulus*. IX *Simposio de Micología*. PUCPR, Ponce. May 5, 2007. Poster.

Couto, M., A. Martínez, **S.L. Maldonado-Ramírez**, and R. Montalvo-Rodríguez. Endophytic microbial diversity in sea grass beds of *Thalassia testudinum* from Cabo Rojo, Lajas, and Vieques, PR. Sigma Xi XII Poster Day. Chemistry Building, UPR-M. April 26, 2007. Poster.

Natal-Molina, G. and **S.L. Maldonado-Ramírez**. Inventory of fungal pathogens from Puerto Rico included in the fungal collection at the UPR Herbarium-Mayagüez Campus (MAPR). Sigma Xi XII

Poster Day. Chemistry Building, UPR-M. April 26, 2007. Poster.

Narváez del Pilar, V. and **S.L. Maldonado Ramírez**. *Estudio aerobiológico de esporas de hongos viables en el Edificio de Biología UPR-RUM*. Sigma Xi XII Poster Day. Chemistry Building, UPR-M. April 26, 2007. Poster.

Neste-Gallisa, K. and **S.L. Maldonado-Ramírez**. *Hongos mitosporicos en la baja atmósfera del pueblo de Hormigueros, PR*. Sigma Xi XII Poster Day. Chemistry Building, UPR-M. April 26, 2007. Poster.

Velázquez, R. and **S.L. Maldonado-Ramírez**. *Catastro de hongos endofitos en Eucalyptus globulus*. Sigma Xi XII Poster Day. Chemistry Building, UPR-M. April 26, 2007. Poster.

**Maldonado-Ramírez, S.L.** April 18, 2007. Workshop for graduate and undergraduate students on Poster Preparation Using Power Point. Department of Biology, UPR-M.

**Maldonado-Ramírez, S.L.** March 29, 2007. Workshop for fourth and fifth grade students on Collection and Identification of Macroscopic Fungi. *Cuarto Encuentro Universitario para Estudiantes Investigadores del Instituto Comunitario de Biodiversidad y Cultura/ Casa Pueblo*, Adjuntas. Department of Biology, UPR-M.

**Maldonado-Ramírez, S. L.** *Importancia del herbario y la colección de hongos*. Student Chapter SPM-RUM. November 9, 2006.

**Maldonado-Ramírez, S. L.** and G. Morell Rodríguez. *Colección e identificación de hongos macroscópicos en la Hacienda Buena Vista, Ponce*. September 26, 2006.

**Maldonado-Ramírez, S.L.** and R. Montalvo-Rodríguez. Endophytic Microbial Diversity in Sea Grass Beds of *Thalassia testudinum* and *Syringodium filiforme* from Cabo Rojo, Lajas and Vieques, PR. 2<sup>nd</sup> Annual Symposium for Coastal and Marine Applied Research. Department of Biology, UPR-M, October 5, 2006.

Morell Rodríguez, G. and **S.L. Maldonado-Ramírez**. Isolation of bioactive compounds from endophytic fungi from *Thalassia testudinum* in Cabo Rojo, PR. 3<sup>rd</sup> Latin American and Caribbean Biotechnology Congress. Mayagüez Resort and Casino, September 21-22, 2006.

Rosado, M.C. and **S.L. Maldonado-Ramírez**. Isolation of bioactive compounds of Endophytic mycelial fungi from leaves of the neem tree (*Azadirachta indica*). 3<sup>rd</sup> Latin American and Caribbean Biotechnology Congress. Mayagüez Resort and Casino, Mayagüez, PR. September 21-22, 2006. Poster.

Espola, M. and **S.L. Maldonado-Ramírez**. *Catastro de hongos endofitos miceliales en Thrinax morrisii H. Wendl. en el Bosque Estatal de Susúa, Sabana Grande, PR*. IX Congreso Latinoamericano de Botánica. Santo Domingo, Dominican Republic. June 18-25, 2006.

Malavé Vega, S. and **S.L. Maldonado-Ramírez**. *Catastro de hongos endofitos miceliales cultivables en la hierba marina Thalassia testudinum en Playa Buyé, Cabo Rojo, PR*. IX Congreso Latinoamericano de Botánica. Santo Domingo, Dominican Republic. June 18-25, 2006. Poster.

Morell Rodríguez, G. and **S.L. Maldonado-Ramírez**. *Aislamiento de compuestos bioactivos de hongos endofitos miceliales recuperados de Thalassia testudinum en Cabo Rojo, PR*. IX Congreso Latinoamericano de Botánica. Santo Domingo, Dominican Republic. June 18-25, 2006. Poster.

Malavé Vega, S. and **S.L. Maldonado-Ramírez**. *Catastro de hongos endofitos miceliales cultivables en la hierba marina Thalassia testudinum en Playa Buyé, Cabo Rojo, PR*. VIII Simposio de Micología. Interamerican University (IU)-Ponce. May 6, 2006. Poster.

Morell Rodríguez, G. and **S.L. Maldonado-Ramírez**. *Aislamiento de compuestos bioactivos de hongos endofitos miceliales recuperados de Thalassia testudinum en Cabo Rojo, PR. VIII Simposio de Micología*. IU-Ponce. May 6, 2006. Poster.

Ortiz, Luis A. and **S.L. Maldonado-Ramírez**. Aerobiological studies of mitosporic fungi occurring on the lower atmosphere in Hormigueros, PR. *VIII Simposio de Micología*. IU-Ponce. May 6, 2006.

Quevedo Nazario, J.A. and **S.L. Maldonado-Ramírez**. *Diversidad de esporas de hongos miceliales en la baja atmósfera recuperadas utilizando aviones piloteados mediante control remoto. VIII Simposio de Micología*. IU-Ponce. May 6, 2006.

Rivera, Y., A. Rivera Valentín, R. Rivera Valentín, and **S.L. Maldonado-Ramírez**. Identification of fungal spores inside the newly constructed Biology building at the UPR-M. *VIII Simposio de Micología*. IU-Ponce. May 6, 2006.

Tirado Costacamps, A. and **S.L. Maldonado-Ramírez**. Isolation and identification of mitosporic fungal endophytes from healthy foliar tissue of *Goetzea elegans* Wydler. *VIII Simposio de Micología*. IU-Ponce. May 6, 2006.

Malavé Vega, S. and **S.L. Maldonado-Ramírez**. *Catastro de hongos endofitos miceliales cultivables en la hierba marina Thalassia testudinum en Playa Buyé, Cabo Rojo, PR. XXIII Simposio de Ecología Tropical: Puerto Rico, tesoro ecológico del Caribe*. Biology Building, UPR-M. April 25, 2006.

Morell Rodríguez, G. and **S.L. Maldonado-Ramírez**. *Aislamiento de compuestos bioactivos de hongos endofitos miceliales recuperados de Thalassia testudinum en Cabo Rojo, PR. XXIII Simposio de Ecología Tropical: Puerto Rico, tesoro ecológico del Caribe*. Biology Building, UPR-M. April 25, 2006.

Ortiz, L.A. and **S.L. Maldonado-Ramírez**. Aerobiological studies of mitosporic fungi occurring on the lower atmosphere in Hormigueros, PR. *XXIII Simposio de Ecología Tropical: Puerto Rico, tesoro ecológico del Caribe*. Biology Building, UPR-M. April 25, 2006.

Quevedo Nazario, J.A. and **S.L. Maldonado-Ramírez**. *Diversidad de esporas de hongos miceliales en la baja atmósfera recuperadas utilizando aviones piloteados mediante control remoto. XXIII Simposio de Ecología Tropical: Puerto Rico, tesoro ecológico del Caribe*. Biology Building, UPR-M. April 25, 2006.

Tirado Costacamps, A. and **S.L. Maldonado-Ramírez**. Isolation and identification of mitosporic fungal endophytes from healthy foliar tissue of *Goetzea elegans* Wydler. *XXIII Simposio de Ecología Tropical: Puerto Rico, tesoro ecológico del Caribe*. Biology Building, UPR-M. April 25, 2006.

Morell Rodríguez, G. and **S.L. Maldonado-Ramírez**. *Aislamiento de compuestos bioactivos de hongos endofitos miceliales recuperados de Thalassia testudinum en Cabo Rojo, PR. Sigma Xi XI Poster Day*. Chemistry Building, UPR-M. April 6, 2006.

Ortiz, L.A. and **S.L. Maldonado-Ramírez**. Aerobiological studies of mitosporic fungi occurring on the lower atmosphere in Hormigueros, PR. *Sigma Xi XI Poster Day*. Chemistry Building, UPR-M. April 6, 2006.

Quevedo Nazario, J.A. and **S.L. Maldonado Ramírez**. *Diversidad de esporas de hongos miceliales en la baja atmósfera recuperadas utilizando aviones piloteados mediante control remoto. Sigma Xi XI Poster Day*. Chemistry Building, UPR-M. April 6, 2006.

Tirado Costacamps, A. and **S.L. Maldonado-Ramírez**. Isolation and identification of mitosporic fungal endophytes from healthy foliar tissue of *Goetzea elegans* Wydler. *Sigma Xi XI Poster Day*. Chemistry Building, UPR-M. April 6, 2006.

- Rosado, M. C. and **S.L. Maldonado-Ramírez**. Isolation of endophytic mycelial fungi from leaves of *Azadirachta indica*. 41<sup>st</sup> ACS Junior Technical Meeting and 26<sup>th</sup> Puerto Rico Interdisciplinary Scientific Meeting, UPR- Cayey. March 11, 2006.
- Soto-Luciano, G. and **S.L. Maldonado-Ramírez**. Identification of fungal endophytes from leaves of *Dendrobium* spp. 41<sup>st</sup> ACS Junior Technical Meeting and 26<sup>th</sup> Puerto Rico Interdisciplinary Scientific Meeting, UPR- Cayey. March 11, 2006.
- Maldonado-Ramírez, S.L.** Series of five 30-minute workshops on collection and identification of macroscopic fungi at *V Retorno de Julian Chiví, Bosque del Pueblo, Adjuntas, PR.* March 9, 2006.
- Maldonado-Ramírez, S.L.** October 8, 2005. Workshop for teachers on *Fermentations mediated by fungi: production of wine, beer and bread.* GLOBE Program. Department of Chemistry, UPR-M.
- Maldonado-Ramírez, S.L.** September 10, 2005. Workshop for teachers on *Collection and Identification of Macroscopic fungi.* GLOBE Program. Department of Chemistry, UPR-M.
- Acosta, S. and **S.L. Maldonado-Ramírez**. April 23, 2005. Endophytic fungi in *Aglaonema commutatum*. *VII Simposio de Micología*, UPR-M.
- Morell Rodríguez, G. and **S.L. Maldonado-Ramírez**. April 23, 2005. *Fungal endophytes from healthy tissue of Thalassia testudinum VII Simposio de Micología*, UPR-M.
- Maldonado-Ramírez, S.L.** April 7, 2005. Conference entitled *Colección de Hongos de la Universidad de Puerto Rico- Mayagüez: mantenimiento, importancia y proyecciones futuras for Asociación Estudiantes de Biología.* Eugene Francis, UPR-M.
- Maldonado-Ramírez, S.L.** April 2, 2005. Workshop for teachers on *Indoor Air Quality and Sick Building Syndrome.* Department of Industrial Engineering, UPR-M.
- Maldonado-Ramírez, S.L.** March 15, 2005. Conference entitled *La hifa: unidad estructural que define un estilo de vida.* PUCPR-Mayagüez.
- Acosta, S. and **S.L. Maldonado-Ramírez**. March 12, 2005. Endophytic fungi in *Aglaonema commutatum*. 25<sup>rd</sup> Puerto Rico Interdisciplinary Scientific Meeting, UPR-M.
- Morell Rodríguez, G. and **S.L. Maldonado-Ramírez**. March 12, 2005. *Fungal endophytes from healthy tissue of Thalassia testudinum.* 25<sup>rd</sup> Puerto Rico Interdisciplinary Scientific Meeting, UPR-M.
- Maldonado-Ramírez, S.L.** March 3, 2005. Conference entitled *Estudios sobre hongos endofitos asociados a Thalassia testudinum en el área oeste de Puerto Rico. Seminario Taller "Estudios micológicos en Centroamérica: futuro de la micología en la región"* Ciudad de Panamá, Panamá.
- Maldonado-Ramírez, S.L.** February 28, 2005. Conference entitled *Colección de Hongos de la Universidad de Puerto Rico en Mayagüez: importancia y proyecciones futuras. VII Reunión de Herbarios de Mesoamérica y el Caribe.* Ciudad de Panamá, Panamá.
- Maldonado-Ramírez, S.L.** 2005. Conference on fungal endophytes. February 3, 2005. Department of Biology, UPR-M.
- Maldonado-Ramírez, S.L.** November 19, 2004. Guide and identification resource in field trip to *Bosque del Pueblo, Adjuntas, PR.*
- Maldonado-Ramírez, S.L.** October 18, 2004. Conference on Aerobiology for *Sociedad Estudiantes de Microbiología Industrial.* Department of Biology, UPR-M.
- Maldonado-Ramírez, S.L.** November 6, 2004. Workshop for teachers on *Fermentations mediated by fungi: production of wine, beer and bread.* GLOBE Program. Department of Chemistry, UPR-M.

- Maldonado-Ramírez, S.L.** September 4, 2004. Workshop for teachers on *Indoor Air Quality and Sick Building Syndrome*. GLOBE Program. Department of Chemistry, UPR-M.
- Maldonado-Ramírez, S.L.** 2004. *Summer Internship for Teachers of the Department of Education*. June 15 to July 14, 2004. Sponsored by Bristol-Myers Squibb Manufacturing Co. Presented at the Tropical Mycology Laboratory, Department of Biology, UPR-M.
- Espola Sepúlveda, M., A. Rivera Valentín, and **S.L. Maldonado-Ramírez**. April 30, 2004. Fungi associated with the tropical *Thrinax morrisii* in Susúa Forest, *Sabana Grande*, PR. *XXIII Simposio de Flora y Fauna del Caribe*, UPR-Humacao.
- Morell-Rodríguez, G. and **S. L. Maldonado-Ramírez**. April 30, 2004. *Muestreador aereo portable utilizado para determinar la incidencia de esporas pigmentadas en la baja atmósfera del área oeste de Puerto Rico*. *XXIII Simposio de Flora y Fauna del Caribe*, UPR-Humacao.
- Virella Pérez, C., S. Malavé Vega, and **S.L. Maldonado-Ramírez**. April 30, 2004. Fungal endophytes in *Aglaonema commutatum*. *XXIII Simposio de Flora y Fauna del Caribe*, UPR-Humacao.
- Espola Sepúlveda, M., A. Rivera Valentín, and **S.L. Maldonado-Ramírez**. April 24, 2004. Fungi associated with the tropical *Thrinax morrisii* in Susúa Forest, *Sabana Grande*, PR. *VI Simposio de Micología*. IU-Arecibo, PR.
- Maldonado-Ramírez, S.L.** April 24, 2004. *Aerobiología del hongo causante del blanqueamiento de la cabeza del trigo, Gibberella zeae*. Oral presentation. *VI Simposio de Micología*. IU-Arecibo, PR.
- Morell-Rodríguez, G. and **S. L. Maldonado-Ramírez**. April 24, 2004. *Muestreador aereo portable utilizado para determinar la incidencia de esporas pigmentadas en la baja atmósfera del área oeste de Puerto Rico*. *VI Simposio de Micología*. IU-Arecibo, PR.
- Virella Pérez, C., S. Malavé Vega, and **S.L. Maldonado-Ramírez**. April 24, 2004. Fungal endophytes in *Aglaonema commutatum*. *VI Simposio de Micología*. IU-Arecibo, PR.
- Espola Sepúlveda, M., A. Rivera Valentín, and **S.L. Maldonado Ramírez**. April 1<sup>st</sup>, 2004. Fungi associated with the tropical *Thrinax morrisii* in Susúa Forest, *Sabana Grande*, PR. IX Sigma Xi Poster Day, Department of Chemistry, UPR-M.
- Morell-Rodríguez, G. and **S.L. Maldonado-Ramírez**. April 1<sup>st</sup>, 2004. *Muestreador aereo portable utilizado para determinar la incidencia de esporas pigmentadas en la baja atmósfera del área oeste de Puerto Rico*. IX Sigma Xi Poster Day, Department of Chemistry, UPR-M.
- Virella Pérez, C., S. Malavé Vega, and **S.L. Maldonado-Ramírez**. April 1<sup>st</sup>, 2004. Fungal endophytes in *Aglaonema commutatum*. IX Sigma Xi Poster Day, Department of Chemistry, UPR-M.
- Morell-Rodríguez, G. and **S.L. Maldonado-Ramírez**. March 13, 2004. *Muestreador aereo portable utilizado para determinar la incidencia de esporas pigmentadas en la baja atmósfera del área oeste de Puerto Rico*. 24<sup>th</sup> Puerto Rico Interdisciplinary Scientific Meeting, UPR- Humacao.
- Simpson-Hernández, J. and **S.L. Maldonado-Ramírez**. March 13, 2004. *Nueva evidencia sobre la presencia de hongos endositos en Thalassia testudinum*. 24<sup>th</sup> Puerto Rico Interdisciplinary Scientific Meeting, UPR-Humacao.
- Maldonado-Ramírez, S.L.** March 5, 2004. *Taller académico sobre hongos macroscópicos. Retorno del Julián Chiví. Bosque del Pueblo, Adjuntas*, PR.
- Maldonado-Ramírez, S.L.** March 4, 2004. Conference on Aerobiology for Industrial Microbiology students. Department of Biology, UPR-M.
- Maldonado-Ramírez, S.L.** July 5, 2003. *Mini-taller sobre hongos macroscópicos. Ruta Quetzal 2003. Bosque del Pueblo, Adjuntas*, PR.

- Valentín Cruz, José A. and **S.L. Maldonado-Ramírez**. 2003. *Hongos miceliales a lesiones en tejido de Orchidaceae*. V *Simpósio de Micología*, UT-Caguas, PR.
- Pérez Aponte, B.M. and **S.L. Maldonado-Ramírez**. 2003. *Preliminary studies of airborne fungi in Vega Baja, Puerto Rico*. V *Simpósio de Micología*, UT-Caguas, PR.
- Maldonado-Ramírez, S.L.** 2003. *Aerobiología del hongo causante del blanqueamiento de la cabeza de trigo: descarga, dispersión atmosférica y depósito de ascosporas*. Department of Crop Protection, UPR-M.
- Iglesias-Torres, E. and **S.L. Maldonado-Ramírez**. 2003. *Mycelial fungi associated to disease in three orchid species* (Oral Presentation). 23<sup>rd</sup> Puerto Rico Interdisciplinary Scientific Meeting, UPR-Río Piedras.
- Leiva-Nieves, J. and **S.L. Maldonado-Ramírez**. 2003. *Preliminary studies of fungal endophytes in Thalassia testudinum*. 23<sup>rd</sup> Puerto Rico Interdisciplinary Scientific Meeting, UPR-Río Piedras.
- Lozada, C. and **S.L. Maldonado-Ramírez**. 2003. *Airborne fungi in the Cabo Rojo area*. 23<sup>rd</sup> Puerto Rico Interdisciplinary Scientific Meeting, UPR-Río Piedras.
- Pérez-Perocier, M. and **S.L. Maldonado-Ramírez**. 2003. *Estudio aerobiológico en el area suroeste de Puerto Rico*. 23<sup>rd</sup> Puerto Rico Interdisciplinary Scientific Meeting, UPR-Río Piedras.
- Iglesias-Torres, E. and **S.L. Maldonado-Ramírez**. 2003. *Hongos asociados a lesiones en orquídeas* (Poster). Long-Term Ecological Research; Third Annual Public Symposium. UPR-Río Piedras.
- Maldonado-Ramírez, S.L.** 2002. *Saprophytic fungi at Bosque del Pueblo*. Bosque del Pueblo Assambly, Adjuntas, PR.
- Maldonado-Ramírez, S.L.** 2002. *Aerobiología del hongo causante del blanqueamiento de la cabeza de trigo: descarga, dispersión atmosférica y depósito de ascosporas*. Department of Biology, UPR-M.
- Maldonado-Ramírez, S.L.** 2002. *Aerobiología: conceptos y aplicaciones*. Conference for BIOS '02. Department of Biology, UPR-M.
- Maldonado-Ramírez, S.L.** 2002. *Aerobiology Workshop for K-12 teachers*. Bioscience TEST. Department of Chemistry, UPR-M.
- Maldonado-Ramírez, S.L.** 2001. *Enfermedades en las orquídeas*. Conferencia para la Sociedad de Horticultura, Cabo Rojo, PR.
- Maldonado-Ramírez, S.L.** 2001. *Conference on Aerobiology*. Marc/Sloan. Department of Biology, UPR-M.
- Maldonado-Ramírez, S.L.** and G.C. Bergstrom. 2000. *Temporal patterns of ascospore discharge by Gibberella zeae from colonized corn stalks under natural conditions*. Pp 159-162. In: Proceedings of the 2000 National *Fusarium* Head Blight Forum. Michigan State University Printing, East Lansing, MI.
- Maldonado-Ramírez, S.L.**, G.C. Bergstrom, and E.J. Shields. 1999. *Use of remote piloted vehicles in aerobiological studies of Gibberella zeae*. Pp 93-95. In: Proceedings of the 1999 National *Fusarium* Head Blight Forum. MSU Printing, MI.

## PUBLICATIONS

- Rosado-Rodríguez, G. and **S. L. Maldonado-Ramírez**. 2007. First report of *Leptosphaerulina crassiasca* (Ascomycota) in Puerto Rico. Journal of Agriculture of the Agricultural Experiment Station. 91(1-2): 47-48.
- Borges, S., M. Alfaro, **S. Maldonado**, and A. Santiago. 2006. A study of earthworms of the Bosque del Pueblo, Puerto Rico. Carib. J. Sci. 42(3): 366-370.
- Maldonado-Ramírez, S. L.**, Schmale, D.G. III, Shields, E.M., and Bergstrom, G.C. 2005. *The relative abundance of viable spores of Gibberella zeae in the planetary boundary layer suggests the role of long-distance transport in regional epidemics of Fusarium head blight*. Agric. Forest Meteor. 132:20-27.

**Maldonado-Ramírez, S. L.** and H. Torres-Pratts. 2005. *Occurrence of Clatbrus cf crispus* (Basidiomycota:Clathraceae) on decomposing leaves of *Rhizophora mangle*. *Carib. J. Sci.* 41(2):357-359.

Hill, G.T., N.A. Mitkowiski, L. Aldrich-Wolfe, L.R. Emele, D.D. Jurkonie, A. Ficke, **S. Maldonado-Ramírez**, S.T. Lynch, and E.B. Nelson. 2000. *Methods for assessing the composition and diversity of soil microbial communities*. *Appl. Soil Ecol.* 15:25-36.

## AWARDS RECEIVED

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Funds from Biominds Program to sponsor three undergraduate students (Harriel Acosta, Isabelita Martínez, and Coraly Morales) to do research under my supervision.

C. Rodríguez-Minguela (PI), R. Montalvo-Rodríguez, and S. L. Maldonado-Ramírez. *Molecular Ecology of Antimicrobial Resistance Traits in Bacterial and Fungal Populations from Critical Coastal Habitats Impacted by Sewage, Animal Waste, and Wastewater Treatment Plant Discharges* Sea Grant Program \$152,740. From 2008-2010.

Funds for undergraduate research for Marie C. Rosado to work in a project entitled *Isolation of bioactive compounds of endophytic mycelial fungi from leaves of the neem tree (Azadirachta indica)*. Sponsored by the Biotechnology Program, UPR-M. \$1,000.

Summer research funds from ALACiMa Program to sponsor two students from *Programa de Preparación de Maestros* working on mycelial fungal endophytes from leaves of red mangrove (*Rhizophora mangle*) and white mangrove (*Laguncularia racemosa*). \$2,000.

J. D. China (PI), G. Breckon, and S. L. Maldonado-Ramírez. *Upgrading and Internet Publication of the Herbarium of the Department of Biology at the University of Puerto Rico at Mayagüez (MAPR)*. NSF \$162,171 (Award abstract 0545174) from 2006-2008.

Maldonado-Ramírez, S. L. (PI) and R. Montalvo Rodríguez (Co- PI). *Endophytic microbial diversity in seagrass beds of Thalassia testudinum and Syringodium filiforme from Cabo Rojo, Lajas, and Vieques, Puerto Rico*. SEA GRANT Program \$75,298. From 2006-2008.

Approval of research funds from ALACiMa to sponsor the graduate research of Alexis Tirado entitled *Diversity and distribution of endophytic fungi in foliar tissue of Goetzia elegans, an endangered plant species in Puerto Rico*. 2005.

Invited to participate as Co-PI in a proposal entitled *Undergraduate Students Enhancing Earth System Science in K-12 Schools and Informal Community Education*, in response to the request for proposals: NASA Research Announcement number NN-H-04-Z-YO-006-N. September, 2004.

Approval of a new course in Introduction to Mycology. 2006. Faculty of Arts and Sciences, UPR-M.

Approval of Seed Money funds for a proposal entitled *Estudios sobre la diversidad de hongos endofitos y exudados en la hierba marina Thalassia testudinum* for the academic year 2004-05.

Approval of release time (3crds for 2004-05) to continue research activities on project entitled *Estudios sobre la diversidad de hongos endofitos y exudados en la hierba marina Thalassia testudinum*.

Elected President of the *Sociedad Puertorriqueña de Micología* for 2005-06. *Sociedad Puertorriqueña de Micología*, Interamerican University, Arecibo, PR.

Approval of a course in Aerobiology. 2004. Faculty of Arts and Sciences, UPR-M.

Panel Reviewer for the U.S. Department of Homeland Security (DHS) Center for Post-Harvest



Food Protection and Defense Merit Review. March 9-11, 2004.

Book Review for Mycologia. Book entitled “*Tropical Mycology Vol 2: Micromycetes*” by R. Watling, J.C. Frankland, A.M. Ainsworth, S. Isaac, and C.H. Robinson. February 2004.

Maldonado-Ramírez, S.L. 2002- 04. Undergraduate Research-RETO Department of Biology, UPR-M.

Maldonado-Ramírez, S.L. 2002. *Temporal trends and environmental factors associated with the diversity and abundance of airborne fungi in three suburban sites in the West coast of Puerto Rico*. Research and Development Center, UPR-M.

Bergstrom, G.C., **S.L. Maldonado-Ramírez** and D.M. Gadoury. 2000. Factors affecting release of *Gibberella zeae* ascospores. U.S. Wheat and Barley Scab Initiative.

Maldonado-Ramírez, S.L. 2000. Anonymous Donor Fellowship. Cornell University. Ithaca, N.Y.

Maldonado-Ramírez, S.L. 1998-2000. Minority Student Fellowship. Cornell University. Ithaca, N.Y.

## CURRENT PROFESSIONAL ACTIVITIES

### Research:

*Molecular Ecology of Antimicrobial Resistance Traits in Bacterial and Fungal Populations from Critical Coastal Habitats Impacted by Sewage, Animal Waste, and Wastewater Treatment Plant Discharges*(2008-2010)

*Upgrading and Internet Publication of the Herbarium of the Department of Biology at the University of Puerto Rico at Mayagüez (MAPR)* (2006-2008).

*Endophytic microbial diversity in sea grass beds of *Thalassia testudinum* and *Syringodium filiforme* from Cabo Rojo, Lajas and Vieques, Puerto Rico* for Sea Grant Program (2006-2008).

Analysis of the mycelial fungi associated to the nesting structures of the Puerto Rican parrot *Amazona vitata vitata* at El Yunque Avairy (*Ad hoc* 2005-06).

Temporal trends and environmental factors associated with the diversity and abundance of airborne fungi in the Hormigueros area (2004-2007).

Studies on diversity of fungal endophytes and their exudates in *Thalassia testudinum*.

Fungal endophytes from leaves of the neem tree (*Azadirachta indica*) and *Eucalyptus globulus*.

Fungal endophytes from leaves of red mangrove (*Rhizophora mangle*) and white mangrove (*Laguncularia racemosa*).

### Teaching:

Aerobiology, Economic Mycology, Microbiology, Mycology, Botany (majors and non-majors), Undergraduate Seminar, and Taxonomy and Morphology of Fungi.

### Other activities:

1. Consultant. Mycological evaluation of Bioprocess Development and Training Complex, Guanajibo Industrial Park, Mayagüez, PR. March 21, 2008.
2. Moderator at 43<sup>rd</sup> ACS Junior Technical Meeting and 28<sup>th</sup> Puerto Rico Interdisciplinary Scientific Meeting (PRISM), UPR-Arecibo. March 8, 2008.
3. Representative of the Graduate Studies Department for the defense of Brandi Renee Todd, Department of Marine Sciences, UPR-M. February 21, 2008.
4. Invited to participate in the *Proyecto Comunitario Agro-Eco-Turístico del Barrio Río Hondo*, Mayagüez, PR. February 6, 2008.
5. Representative of the Graduate Studies Department for the defense of Alex E. Mercado Molina, Department of Marine Sciences, UPR-M. November 28, 2007.
6. Consultant. Mycological evaluation of *Biblioteca Dennis Soto, Universidad Adventista de las Antillas*, Mayagüez,

PR. September 23, 2007.

7. Mentor for Ruth M. Velázquez and Yashaira Vélez. June-July, 2006. Sponsored by ALACiMa. Department of Biology, UPR-M.
8. Representative of the Graduate Studies Department for the defense of Aracelis Cardona, Department of Chemistry. May 5, 2006. UPR-M.
9. Representative of the Graduate Studies Department for the defense of Juan Calle, Department of Crop Protection. July 14, 2005. UPR-M
10. *Summer Internship for Teachers of the Department of Education.* June 2-30, 2005. Sponsored by Bristol-Myers Squibb Manufacturing Co, Department of Biology, UPR-M.
11. Mentor for Alexis Tirado. June-July, 2005. Sponsored by ALACiMa. Department of Biology, UPR-M.
12. **Graduate students advising:** currently 4 students.
13. **Undergraduate Research Advising:** currently 9 students.
14. **Invited reviewer for the** Caribbean Journal of Science, UPR-M, Agricultural Experiment Station, UPR-M, and *Revista Iberoamericana de Micología.*
15. **Personnel Committee,** Biology Department, UPR-M.
16. President Biology Department Award Committee, UPR-M. Since 2004.
17. Coordinator of the efforts to revise the Undergraduate Curriculum in Microbiology.
18. **Ad hoc APS Young Professional Committee.** 2003-2004. APS.
13. **Panel Reviewer for Seed Money Funds.** 2003-2004. UPR-M.